

## BOOK NOTICE

### TAYLOR & FRANCIS

#### **Medicinal and Aromatic Plants—Industrial Profiles**

Each volume in the series discusses the history and botany of each genus, and provides an in-depth look at areas such as commercial cultivation, chemical and/or pharmacological aspects, toxicology, current and/or future products, etc.

MARIA LIS-BALCHIN (ed.). 2002. **Geranium and Pelargonium: The Genera Geranium and Pelargonium.** (ISBN 0-415-28487-2, hbk.). **Medicinal and Aromatic Plants—Industrial Profiles. Volume 27.** Series Editor: Roland Hardman. Taylor & Francis, 11 New Fetter Lane, London EC4P 4EE, UK and 29 West 35<sup>th</sup> Street, New York, NY 10001, U.S.A. (Orders: info@tandf.co.uk, www.tandf.co.uk, 44(0)207 583 9855, fax 44(0)207-842-2298, standing orders call 44(0)1264 343071. **US and Canada Customers:** By mail: Taylor & Francis Customer Service, 10650 Toebben Drive, Independence, KY 41051, U.S.A., Toll Free Tel: 1-800-634-7064, Toll Free Fax: 1-800-248-4724, email: cserve@routledge-ny.com). \$152.00, 318 pp., numerous b/w photos drawings and tables, 15 color plates 7" × 10".

*From Taylor & Francis website.*—“This book dispels the myths and incorrect information surrounding this [these] particular genera and will be of interest to graduate students, scientists, industry, and those using *Geranium* and *Pelargonium* as an alternative medicine.”

*Contents.*—**1)** General introduction: **PART 1; Geranium;** **2)** History of nomenclature, usage and cultivation of *Geranium* and *Pelargonium* species; **3)** The taxonomy of *Geranium* species and cultivars, their origins and growth in the wild; **4)** Phytochemistry of the genus *Geranium*; **5)** Cultivation and harvesting of *Geranium macrorrhizum* and *Geranium sanguineum* for medicinal use in Bulgaria; **6)** Essential oil of *Geranium macrorrhizum* L. production, extraction, distillation **and** use; **7)** Use of *Geranium* species extracts as herbal medicines. **PART 2; Pelargonium;** **8)** The taxonomy of *Pelargonium* species and cultivars, their origins and growth in the wild; **9)** Cultivation and sales of *Pelargonium* plants for ornamental use in **the** UK and worldwide; **10)** Growing pelargoniums in the garden, conservatory and for shows; **11)** Phytochemistry of the genus *Pelargonium*; **12)** Pharmacology of *Pelargonium* essential oils and extracts *in vitro* and *in vivo*; **13)** Antimicrobial properties of *Pelargonium* extracts contrasted with that of *Geranium*; **14)** Essential oils from different *Pelargonium* species and cultivars: their chemical composition (using GC, GC/MS) and appearance of trichomes (under EM); **15)** Chemotaxonomy of *Pelargonium* based on alkaloids and essential oils; **16)** Phylogenetical relationship within the genus *Pelargonium* based on the RAPD-PCR method of DNA analysis correlated with the essential oil composition; **17)** *Geranium* essential oil: standardisation, ISO; adulteration and its detection using GC, enantiomeric columns, toxicity and bioactivity; **18)** ‘Rose-scented geranium’ a *Pelargonium* grown for the perfume industry; **19)** Cultivation and distillation of *Geranium* oil from *Pelargonium* species in India; **20)** Micropropagation and biotechnological approaches to tissue culture of *Pelargonium* species and production of essential oils of scented; **21)** *Geranium* oil and its use in aromatherapy; **22)** Perfumery and cosmetic products utilising *Geranium* oil; **23)** New research: possible uses of various *Pelargonium* leaf oils and extracts as food preservatives; **24)** *Pelargonium reniforme* and *Pelargonium sidoides*: their botany, chemistry and medicinal use; **25)** Interactions between arthropod pests and pelargonium; **26)** Correlation of the chemical profiles of the essential oil of *Pelargonium* (*Geranium* oil) and others separately and in mixes, with their relaxant or stimulant properties in man and smooth muscle preparations *in vitro*; and Index.